On page 39, replace the paragraph on lines 20-28 with the following:

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The gas, highly pressurized in the second compression stage 460, is pumped through the pipeline 504 into a storage cell 501, which is connected to a flange 503. The storage cell can be closed at the valve 502 and disconnected from the polarizer (1) for transportation. These transportable cells 510 are also used for la long-term storage of polarized gas. An exemplary model used for medical applications of ^{3}He is therefore made of special Supremax glass (made by Schott Glas). which has a low iron content and a low Helium permeation rate. Within this glass vessel. ^{3}He relaxation times of up to 100 hours can be achieved. In addition, by means of a suitable inner coating of the cells, the relaxation times may be prolonged and storage times of up to 200 hours can be achieved.

On page 43, replace the paragraph on lines 29-30 with the following:

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This principle - the interception of impurity gas entries by means of intermediate vacuum regions with movable vacuum lead in insulators - is hereinafter called "fractional pumping".

In the Claims

Please amend the claims as follows:

53. (Amended) An ultra high vacuum (UHV) compatible lead-through, comprising:

a housing;

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a first space within the housing and connected via a first port to a space outside the UHV-compatible lead through;

a second space within the housing and connected via a second port to a closed system containing a polarized gas;